AMENDMENTS TO THE CLAIMS:

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

LISTING OF CLAIMS:

- 1. (Canceled).
- (Currently Amended) An information recording/reproducing system according to claim 44,

wherein said magnetic disk apparatus and said host system include authentication key recording means for recording said authentication key, respectively, authentication data generating means for generating authentication data on the basis of said authentication key, respectively, and at least one access control means for controlling access of said host system to information of said magnetic disk apparatus on the basis of the authentication of said magnetic disk apparatus.

- 3. (Canceled).
- 4. (Currently Amended) An information recording/reproducing system according to claim 1,comprising:

a magnetic disk apparatus for recording/ reproducing information and a

host system to which said magnetic disk apparatus can be removably connected,
said host system being capable of accessing said magnetic disk apparatus for
recording/reproduction of the information,

wherein said magnetic disk apparatus includes:
a magnetic disk, and
authentication key generating means for generating an
authentication key on the basis of physical characteristic of said magnetic disk
apparatus itself, and
wherein said authentication key is generated on the basis of an
eccentricity characteristic of a said magnetic disk. which said magnetic disk
apparatus includes.
5. (Currently Amended) An information recording/reproducing system
according to claim 1, comprising:
a magnetic disk apparatus for recording/ reproducing information and a
host system to which said magnetic disk apparatus can be removably connected,
said host system being capable of accessing said magnetic disk apparatus for
recording/reproduction of the information,
wherein said magnetic disk apparatus includes:
a magnetic disk, and
authentication key generating means for generating an
authentication key on the basis of physical characteristic of said magnetic disk
apparatus itself, and
wherein said authentication key is generated on the basis of an
eccentricity compensating signal for compensating for eccentricity characteristic
of a magnetic disk which said magnetic disk apparatus includes.

o. (Our entry Amended) An information recording reproducing system
according to claim 1, comprising:
a magnetic disk apparatus for recording/ reproducing information and a
host system to which said magnetic disk apparatus can be removably connected,
said host system being capable of accessing said magnetic disk apparatus for
recording/reproduction of the information,
wherein said magnetic disk apparatus includes:
a magnetic disk, and
authentication key generating means for generating an
authentication key on the basis of physical characteristic of said magnetic disk
apparatus itself, and
wherein said authentication key is generated on the basis of result of
wavelet transformation of an eccentricity compensating signal for compensating
for eccentricity characteristic of a magnetic disk which said magnetic disk
apparatus includes.
7. (Currently Amended) An information recording/reproducing system
according to claim 1, comprising:
a magnetic disk apparatus for recording/ reproducing information and a
host system to which said magnetic disk apparatus can be removably connected,
said host system being capable of accessing said magnetic disk apparatus for
recording/reproduction of the information,
wherein said magnetic disk apparatus includes:
a magnetic disk, and

authentication key generating means for generating an

authentication key on the basis of physical characteristic of said magnetic disk

apparatus itself, and

wherein said authentication key is generated on the basis of eccentricity compensating signals generated for different cylinders at three locations at the most.

8. (Currently Amended) An information recording/reproducing system according to claim 1,comprising:

a magnetic disk apparatus for recording/ reproducing information and a host system to which said magnetic disk apparatus can be removably connected, said host system being capable of accessing said magnetic disk apparatus for recording/reproduction of the information,

wherein said magnetic disk apparatus comprises:

a magnetic disk,

authentication key generating means for generating an authentication key on the basis of physical characteristic of said magnetic disk apparatus itself,

means for generating an eccentricity compensating signal for compensating for eccentricity of a magnetic disk which said magnetic disk apparatus includes,

means for enciphering said eccentricity compensating signal on the basis of said authentication key,

means for recording said eccentricity compensating signal enciphered, and

means for deciphering said enciphered eccentricity compensating signal to thereby restore the eccentricity compensating signal before having been enciphered on the basis of said authentication key.

9. (New) An information recording/reproducing system according to claim 4, wherein:

said magnetic disk apparatus further comprises a spindle motor, and the eccentricity characteristic of said magnetic disk results from an error between a center of rotation of said spindle motor and a center of rotation of said magnetic disk.